

NEW NAMES IN MANULEA (SCROPHULARIACEAE)

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ABSTRACT. Ten species and one subspecies of *Manulea* are newly described, two varieties are raised to subspecific rank, one species is reduced to a subspecies and another to varietal level. *Sutera annua* is transferred to *Manulea* and its var. *laxa* is raised to species level. *Phyllopodium augei* (*Polycarena augei*) is also transferred to *Manulea*.

This paper is a continuation of Hilliard (1989) and deals mainly with undescribed species that have come to light during a revision of *Manulea*, which is still in progress. Full descriptions will follow in the revision of Scrophulariaceae-Manuleae now in preparation.

In *Manulea* the nature of the indumentum is often an important character, especially the occurrence of a particular hair-type that I have called in English balloon-tipped; this is rendered in the Latin descriptions by the term *pilus sphaerocephalus*.

***Manulea altissima* L.f. subsp. *glabricaulis* (Hiern) Hilliard, stat. nov.**

Lectotype (chosen here): Cape, Little Namaqualand, 2917 DA, Spektakel Mt, x 1878, Morris sub BOL 5744 (K, isolec. BOL).

Syn.: *M. altissima* var. *glabricaulis* Hiern in Thiselton-Dyer, Fl. Cap. 2(2): 229 (1904).

***Manulea altissima* L.f. subsp. *longifolia* (Benth.) Hilliard, stat. nov.**

Lectotype (chosen here): Cape, Van Rhynsdorp div., 3118 CA, on sandy hills at Ebenezer, Drège (K).

Syn.: *M. longifolia* Benth. in Hook., Comp. Bot. Mag. 1: 382 (1836).

M. altissima var. *longifolia* (Benth.) Hiern in Thiselton-Dyer, Fl. Cap. 4(2): 229 (1904).

The Drège specimen in the Kew herbarium is from Hooker's herbarium and does not bear Bentham's hand; the specimen seen and written up by Bentham has not yet been traced.

***Manulea annua* (Hiern) Hilliard, comb. nov.**

Lectotype (chosen here): Cape, Clanwilliam div., 3218 BA, Graaff Water, 1000ft, 18 viii 1896, Schlechter 8567 (K; isolec. BOL, E, PRE).

Syn.: *Sutera annua* Hiern in Thiselton-Dyer, Fl. Cap. 4(2): 264 (1904) p.p. and excluding var. *laxa* Hiern.

Clanwilliam and Piquetberg divisions, from Pakhuis Pass to Citrusdal and Piquetberg.

***Manulea augei* (Hiern) Hilliard, comb. nov.**

Type: Cape, without locality, *Auge* (Nelson) (holo. BM).

Syn.: *Phyllopodium augei* Hiern in Thiselton-Dyer, Fl. Cap. 4(2): 313 (1904).

Polycarena augei (Hiern) Levyns in J. S. Afr. Bot. 5: 36 (1939).

Around Saldanha Bay and Hopefield; ill known, no collection post 1924.

Manulea calciphila Hilliard, **species nova** *M. arabideae* Hiern affinis sed pedicellis plerumque brevioribus (1.5–4(–6)mm longis, nec 4–11 mm), calycis lobis anticis plerumque majoribus (2–3 × 0.6–0.8mm, nec 1.25–2 × 0.4–0.5mm), bracteis et corollae tubo magis glandulosis, filamentis posticis barbatis (nec glabris) distinguenda.

Type: Cape, Bredasdorp div., 3420 CA, near Bredasdorp, 15 ix 1951, Esterhuysen 19131 (holo. BOL).

Limestone areas in Bredasdorp and Riversdale divisions.

Manulea cinerea Hilliard, **species nova** nulli arcte affinis. *M. thyrsoflorae* L.f. distanter cognata, a qua indumento pilorum sphaerocephalorum minus quam 0.1mm longorum (nec usque ad 0.25–0.7mm), foliis ellipticis integris c.4–8mm latis (nec late ellipticis vel subrotundis vel ovatis et usque ad 30mm latis, marginibus serratis vel duploserratis) differt.

Type: Cape, Namaqualand, 2816 DC, Witbank, x 1926, Pillans 5211 (holo. BOL).

Known only from Namaqualand, where it has also been collected on the northern side of Hondeklip Bay and at the mouth of the Groenrivier.

Manulea crassifolia Benth. subsp. **thodeana** (Diels) Hilliard, **comb. et stat. nov.** Type: Orange Free State, Mont aux Sources, 7000–8000ft, *Thode* 72 (B†; ?iso. STE 8205).

Syn.: *M. thodeana* Diels in Bot. Jahrb. 23: 479 (1896).

Manulea karrooica Hilliard, **species nova** *M. latilobae* Hilliard affinis, sed differt calycis lobis longioribus et saepe angustioribus (lobis anticis 2.2–3 × 0.4–0.8mm, nec 1.5–2 × 0.6–1mm), corollae tubo plerumque longiore (2.3–3.5mm, nec 2–2.5mm), et limbo dissimili (lobis lateralibus ascendentibus juxta posteriores appositis in *M. karrooica*, lateralibus e posterioribus sub angulo recto patentibus in *M. latiloba*). *M. karrooica* aspectu *M. pusillae* Benth. similis sed stigmatibus valde exserto (nec incluso), antheris subaequalibus (nec anticis quam posticis multo minoribus), ore et labio superiore conspicue barbatis (nec ore lineis longitudinalibus tribus pilorum modo manifestis).

Type: Cape, Prince Albert div., 3221 DD, 2 miles S of Kruidfontein station, c.1800ft, 24 viii 1963, *Acocks* 23330 (holo. PRE).

Known from the environs of Fraserburg, Prince Albert, Prince Albert Road and Graaff Reinet.

Manulea latiloba Hilliard, **species nova** *M. arabideae* Hiern affinis sed caulibus aphyllis (nec remote foliatis), calycis lobis anticis latioribus (0.6–1mm latis, nec 0.4–0.5mm) tantum pilis minutis indutis (nec pilis nonnullis ad 0.4mm longis), corollae tubo brevioris (2–2.5mm, nec 2.75–4mm longo), corollae lobis subacutis (nec obtusissimis), antheris omnibus in ore corollae manifestis (nec antheris anticis tantum manifestis) distinguenda.

Type: Cape, Ceres div., 3219 DD, Kareekolk in southern Tanqua Karroo, 1800ft, 1 ix 1973, *Oliver* 4376 (holo. STE, iso. PRE).

Southern Tanqua Karroo and Ceres Karroo south west to the flanks of the Langeberg.

Manulea montana Hilliard, **species nova** a *M. laxa* Schlechter foliis viridibus argute serratis (nec griseis admodum vel fere integris), pilis caulium et foliorum

saepissime glandulosus (nec sphaerocephalus), stigmatibus 0.6–1 mm longo dimidium vel trientem styli tantum aequante (nec 1–2 mm, stylo circum aequali vel paulo brevioribus) differt.

Type: Cape, Clanwilliam div., 3219 AC–AD, top of Cedarberg, 4500 ft, 12 x 1947, *L. E. Taylor* 2964 (holo. NBG).

Recorded from the Cedarberg, Langeberg and Middelberg near Clanwilliam.

Manulea multispicata Hilliard, *species nova* *M. junceae* Benth. affinis sed corollae tubo brevioribus (usque ad 8 mm longo nec 10–15.5 mm) et limbo plerumque minore (lobis posticis 1.5–2.75 mm longis nec 3–3.75 mm, lobo antico 2.5–3 mm nec 3–4.5 mm), capsula glabra (nec glanduloso-puberula) distinguenda.

Type: Cape, Montagu div., 3320 CC, Baden, Pampoen Kloof, 14 vii 1946, *Walgate* sub BOL 23356 (holo. BOL, iso. PRE).

Mountains of the SW Cape in Ceres, Worcester, Robertson, Montagu and Laingsburg divisions.

Manulea ovatifolia Hilliard, *species nova* a *M. turritis* Benth. foliis lamina ovata vel oblonga c. 12–23 × 7–20 mm (nec elliptica, c. 18–60 × 7–20 mm), calycis lobis c. 2.5–3 mm (nec 1.5–2.3 mm), corollae limbo plerumque latiore (7–9.5 mm nec 6–7 mm), lobis majoribus (lobis posticis c. 3.5–4.8 × 1.5 mm, nec 2.25–3.5 × 0.75–1.5 mm) distinguenda.

Type: Cape, Piquetberg div., 3218 DA, Kapitein's Kloof Mountain, 21 x 1935, *Pillans* 7894 (holo. BOL).

Known only from the summit plateau of Piquetberg Mountain, at three different sites.

Manulea parviflora var. *limonioides* (Conrath) Hilliard, *comb. et stat. nov.*

Type: Transvaal, near Johannesburg, Rietfontein, *Conrath* 979 (holo. K).

Syn.: *M. limonioides* Conrath in *Kew Bull.* 1908: 225 (1908).

Manulea paucibarbatata Hilliard, *nom. et stat. nov.* a *M. annua* Hiern corolla circum orem leviter barbata (pilis ad 0.2 mm longis parvis, nec 0.4–0.6 mm longis copiosis) statim distinguenda; etiam inflorescentiis laxis (numquam congestis, ne initio quidem ut in *M. annua*), axi plerumque valde flexuoso (nec plerumque recto vel paulo flexuoso tantum), filamentis omnibus glabris (nec filamentis posticis barbatis) differt.

Type: Cape, Clanwilliam div., 3218 DB, Boontjes Rivier, 2200 ft, 25 viii 1896, *Schlechter* 8667 (holo. K; iso. BOL, E, PRE).

Syn.: *Sutera annua* Hiern var. *laxa* Hiern in *Thiselton-Dyer*, *Fl. Cap.* 4(2): 264 (1904).

Mainly Clanwilliam div., from Boterkloof and Nardouw Pass south to Boontjes Rivier.

Manulea pillansii Hilliard, *species nova* *M. laxae* Schlechter affinis sed habitu robustiore, caule crasso rubro c. 4 mm diam. (nec griseo plerumque 2 mm diam.), et caulibus inferioribus et foliis et corollae tubo pilis minutissimis indutis glabrescentibus (nec pilis persistentibus sub lente conspicuis indutis).

Type: Cape, Piquetberg div., 3218 BC, between Verloren Vlei and Rooikransberg, 18 x 1935, *Pillans* 7973 (holo. BOL).

Recorded from Lambert's Bay, Verloren Vlei and the environs of Clanwilliam.

Manulea plurirosulata Hilliard, **species nova** a *M. bellidifolia* Benth. statura plerumque brevior (20–180mm, nec 150–450mm), rosulis foliorum congestis (nec laxe dispositis), foliis plerumque minoribus, lamina 12–35 × 5–13mm, parte petiolarum dimidium vel fere totam laminam aequante (nec lamina 25–90 × 7–30mm, parte petiolarum minus quam parte quarti laminae longitudinis), et indumento caulium et calycis dissimili (pilis pro maxima parte glanduloso-apiculatis usque ad 0.1mm longis, nec pilis pro maxima parte sphaerocephalis usque ad 0.25mm longis) differt.

Type: Orange Free State, Bloemfontein distr., 2926 AC, 45 miles S of Bloemfontein along railway line, c.4800ft, 1 ix 1925, *Smith* 376 (holo. PRE).

Ranges from the southern part of the Orange Free State to the Colesberg, Middelburg, Steynsburg area of the NE Cape.

Manulea ramulosa Hilliard, **species nova** *M. rigidae* Benth. affinis sed habitu multiramuloso (nec ramis tenuibus longis), caulibus et foliis scabridis (nec glanduloso-puberulis pilis scabridis carentibus vel in pagina folii inferiore parvis), foliis plerumque minoribus c.5–25 × 1–6mm (nec c. 25–35 × 5–12mm), marginibus superne paribus 1–7 dentium (nec omnino grosse et irregulariter dentatis) in sicco viridibus (nec fuscis), bracteis parvis c.4 × 0.6–1mm (nec magnis et prope basin inflorescentiae foliaceae), floribus in racemos breves (ad 20mm longos) ramulos terminantes dispositis (nec in paniculam magnam divaricatam ramosam floribus nonnullis in cymulis dispositis), capsulis in toto glanduloso-puberulis (nec glabris) differt.

Type: Cape, Van Rhynsdorp div., 3118 DC, Klaver, c.150ft, 13 iii 1926, *Smith* 2610 (holo. PRE).

Known only from Klaver and nearby Windhoek.

Manulea rhodantha Hilliard, **species nova** a *M. crassifolia* Benth. calyce in lobos subaequalibus 5 profunde diviso (nec distincte bilabiato, labio postico trilobo, antico bilobo) et antheris posticis longioribus (1.6–1.8mm longis, nec 0.8–1.5mm) distinguenda.

Type: Cape, Barkly East distr., 3027 DC, Witteberg, river below Pitlochrie, c.5800ft, 4 xii 1981, *Hilliard & Burt* 14706 (holo. E; iso. K, NU).

The typical plant occurs in western Lesotho and the mountains of the NE Cape.

Manulea rhodantha Hilliard subsp. **aurantiaca** Hilliard, **subsp. nova** a subsp. *rhodantha* corolla plus minusve aurantiaca (nec rubra vel rosea) et seminibus caeruleo-violaceis (nec albis) differt.

Type: Transvaal, Belfast distr., 2530 CA, 8 miles from Belfast on Stoffberg road, 20 xii 1964, *Burt & Scheepers* 2948 (holo. E, iso. PRE).

Widely distributed in eastern Transvaal.

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REFERENCES

- HILLIARD, O.M. (1989). New genera, species and combinations in Scrophulariaceae-Manuleae. *Notes RBG Edinb.* 45(3): 481–491.